Shell Spirax S4 TXM

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION							
Product name	: Shell Spirax S4	TXM					
Product code	: 001D8246						
Manufacturer or suppli							
Supplier	: Viva Energy Au (Formerly: The (ABN 46 004 6 720 Bourke Str Docklands Victoria 3008 Australia	Shell Company of Australia) 10 459)					
Telephone Telefax	: +61 (0)3 8823 : +61 (0)3 8823						
Emergency telephone number	: 1800 651 818 (;POISONS INI	Australia). FORMATION CENTRE: 13 11 26 (Australia).					
Recommended use of t	he chemical and restric	tions on use					
Recommended use	: Transmission o	il.					
Restrictions on use		ust not be used in applications other than those n 1 without first seeking the advice of the					

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Long-term (chronic) aquatic hazard	:	Category 3
GHS label elements		
Hazard pictograms	:	No Hazard Symbol required
Signal word	:	No signal word
Hazard statements	:	PHYSICAL HAZARDS: Not classified as a physical hazard under GHS criteria. HEALTH HAZARDS: Not classified as a health hazard under GHS criteria. ENVIRONMENTAL HAZARDS:

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	H412 Harmful to a	aquatic life with long lasting effects.	
Precautionary statements	: Prevention:		
	P273 Avoid releas	se to the environment.	
	Response: No precautionary	phrases.	
	Storage: No precautionary	phrases.	
	Disposal: P501 Dispose of o disposal plant.	contents/ container to an approved waste	

Other hazards which do not result in classification

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.Used oil may contain harmful impurities.Not classified as flammable but will burn.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

3.2 Mixtures

Chemical nature	:	Highly refined mineral oils and additives. The highly refined mineral oil contains <3% (w/w) DMSO- extract, according to IP346. Classification based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L).
	:	* contains one or more of the following CAS-numbers: 64742- 53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-65-0, 68037-01-4, 72623-86-0, 72623-87-1, 8042-47-5, 848301-69- 9, 68649-12-7, 151006-60-9, 163149-28-8, 64741-88-4, 64741-89-5.

Components

Chemical name	CAS-No.	Classification	Concentration (%
			w/w)

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Interchangeable low viscosity base oil (<20,5 cSt @40°C) *	Not Assigned	Asp. Tox.1; H304	0 - 90
Zinc dialkyldithiophosphate	4259-15-8	Eye Dam.1; H318 Aquatic Chronic2; H411	1 - 2.4
Borated ester	Not Assigned	Skin Sens.1B; H317	0.1 - 0.9
Triphenyl phosphite	101-02-0	Acute Tox.4; H302 Skin Irrit.2; H315 Skin Sens.1A; H317 Eye Irrit.2A; H319 Aquatic Acute1; H400 Aquatic Chronic1; H410 STOT RE2; H373	0.01 - 0.099
O,O,O-triphenyl phosphorothioate	597-82-0	Aquatic Chronic1; H410	0.025 - 0.099

For explanation of abbreviations see section 16.

SECTION 4. FIRST-AID MEASURES

If inhaled	No treatment necessary under normal conditions of use If symptoms persist, obtain medical advice.	e.
In case of skin contact	Remove contaminated clothing. Flush exposed area w water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.	ith
In case of eye contact	Flush eye with copious quantities of water. Remove contact lenses, if present and easy to do. Cor rinsing. If persistent irritation occurs, obtain medical attention.	ntinue
If swallowed	In general no treatment is necessary unless large quar are swallowed, however, get medical advice.	ntities
Most important symptoms and effects, both acute and delayed	Oil acne/folliculitis signs and symptoms may include fo of black pustules and spots on the skin of exposed are Ingestion may result in nausea, vomiting and/or diarrho	as.
Protection of first-aiders	When administering first aid, ensure that you are weari appropriate personal protective equipment according to incident, injury and surroundings.	
Notes to physician	Treat symptomatically.	

SECTION 5. FIRE-FIGHTING MEASURES

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Suitable extinguishing media		pray or fog. Dry chemical powder, carbon or earth may be used for small fires only.			
Unsuitable extinguishing media	: Do not use wa	Do not use water in a jet.			
Specific hazards during firefighting	A complex mix gases (smoke) Carbon monox occurs.	 Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds. 			
Specific extinguishing methods		ing measures that are appropriate to local and the surrounding environment.			
Special protective equipment for firefighters	gloves are to b large contact w Breathing App a confined spa	ve equipment including chemical resistant e worn; chemical resistant suit is indicated if vith spilled product is expected. Self-Contained aratus must be worn when approaching a fire in ce. Select fire fighter's clothing approved to ards (e.g. Europe: EN469).			
Hazchem Code	: NONE				
SECTION 6. ACCIDENTAL RELI	EASE MEASURES	-			
Personal precautions, protective equipment and emergency procedures	: Avoid contact	with skin and eyes.			
Environmental precautions	: Local authorities should be advised if significant spilla cannot be contained.				

Methods and materials for containment and cleaning up	: Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.
Additional advice	 For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Section 13 of this Safety Data Sheet.

SECTION 7. HANDLING AND STORAGE

General Precautions	:	Use local exhaust ventilation if there is risk of inhalation of
		vapours, mists or aerosols.

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	Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and dispose this material.	al of
Advice on safe handling	 Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should b worn and proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. 	е
Avoidance of contact	: Strong oxidising agents.	
Product Transfer	: Proper grounding and bonding procedures should be used during all bulk transfer operations to avoid static accumulat	
Storage		
Other data	: Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers.	
	Store at ambient temperature.	
Packaging material	 Suitable material: For containers or container linings, use r steel or high density polyethylene. Unsuitable material: PVC. 	nild
Container Advice	: Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	AU OEL
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	Australia. Workplace Exposure Standards for Airborne Contaminant s.
Oil mist, mineral	Not Assigned	TWA (Mist)	5 mg/m3	OSHA Z-1
Oil mist, mineral	Not Assigned	TWA (Inhalable particulate	5 mg/m3	ACGIH

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matter)		
matter)		J

Biological occupational exposure limits

No biological limit allocated.

Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany http://www.dguv.de/inhalt/index.jsp

L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil

Engineering measures	:	The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations.
		Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.
		General Information
		Define procedures for safe handling and maintenance of controls.
		Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.
		Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.
		Drain down system prior to equipment break-in or maintenance.
		Retain drain downs in sealed storage pending disposal or subsequent recycle.
		Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

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Personal protective	equipment	
Protective measure	S	
Personal protective e PPE suppliers.	equipment (PPE) should mee	et recommended national standards. Check with
Respiratory protectio	conditions of u In accordance precautions sh If engineering concentrations health, select r specific condit Check with res Where air-filter appropriate co Select a filter s	protection is ordinarily required under normal se. with good industrial hygiene practices, ould be taken to avoid breathing of material. controls do not maintain airborne to a level which is adequate to protect worker respiratory protection equipment suitable for the ions of use and meeting relevant legislation. spiratory protective equipment suppliers. ring respirators are suitable, select an mbination of mask and filter. suitable for the combination of organic gases nd particles [Type A/Type P boiling point >65°C
Hand protection Remarks	gloves approve US: F739) mad suitable chemi gloves Suitabil usage, e.g. fre resistance of g from glove sup replaced. Pers care. Gloves m gloves, hands	ontact with the product may occur the use of ed to relevant standards (e.g. Europe: EN374, de from the following materials may provide cal protection. PVC, neoprene or nitrile rubber ity and durability of a glove is dependent on quency and duration of contact, chemical love material, dexterity. Always seek advice ppliers. Contaminated gloves should be onal hygiene is a key element of effective hand nust only be worn on clean hands. After using should be washed and dried thoroughly. a non-perfumed moisturizer is recommended.
	breakthrough t for > 480 minu short-term/spla recognize that may not be ava time maybe ac and replaceme a good predict dependent on Glove thicknes	s contact we recommend gloves with ime of more than 240 minutes with preference tes where suitable gloves can be identified. For ash protection we recommend the same but suitable gloves offering this level of protection ailable and in this case a lower breakthrough ceptable so long as appropriate maintenance ent regimes are followed. Glove thickness is not or of glove resistance to a chemical as it is the exact composition of the glove material. as should be typically greater than 0.35 mm the glove make and model.
Eye protection		andled such that it could be splashed into eyes, wear is recommended.

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Skin and body protection	work clothes.	s not ordinarily required beyond standard ce to wear chemical resistant gloves.
Thermal hazards	: Not applicable	
Environmental exposure	controls	
General advice	relevant environ contamination o Section 6. If new being discharge treated in a mur before discharge Local guidelines	e measures to fulfill the requirements of mental protection legislation. Avoid f the environment by following advice given in cessary, prevent undissolved material from d to waste water. Waste water should be nicipal or industrial waste water treatment plant e to surface water. o n emission limits for volatile substances ed for the discharge of exhaust air containing

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid at room temperature.
Colour	:	amber
Odour	:	Slight hydrocarbon
		Data not available
Odour Threshold	:	Data not available
рН	:	Not applicable
Pour point	:	-42 °C / -44 °F Method: ISO 3016
Melting / freezing point		Data not available
Initial boiling point and boiling range	:	> 280 °C / 536 °Festimated value(s)
Flash point	:	220 °C / 428 °F Method: ISO 2592
Evaporation rate	:	Data not available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	Not classified as flammable but will burn.
Upper explosion limit	:	Typical 10 %(V)
Lower explosion limit	:	Typical 1 %(V)

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: < 0.5 Pa (20 ° estimated valu : > 1estimated valu		
	value(s)	
:0.882 (15 °C /	59 °F)	
: negligible		
: Data not avail	able	
: log Pow: > 6 (based on info	ormation on similar products)	
: > 320 °C / 608	3 °F	
e : Data not avail	able	
: Data not avail	able	
: Data not avail	able	
: Classification	Code: Not classified	
: Data not avail	able	
: This material i	s not expected to be a static accumulator.	
	 : 0.882 (15 °C / : 882 kg/m3 (15 Method: ISO 1 : negligible : Data not avail : log Pow: > 6 (based on info : > 320 °C / 608 : Data not avail : 60 mm2/s (40 Method: ISO 3 9.4 mm2/s (10 Method: ISO 3 : Data not avail : Classification : Data not avail 	 : 0.882 (15 °C / 59 °F) : 882 kg/m3 (15.0 °C / 59.0 °F) Method: ISO 12185 : negligible : Data not available : log Pow: > 6 (based on information on similar products) : > 320 °C / 608 °F : Data not available : Data not available : Data not available : 60 mm2/s (40.0 °C / 104.0 °F) Method: ISO 3104 9.4 mm2/s (100 °C / 212 °F) Method: ISO 3104 : Data not available : Data not available : Data not available : Data not available : Classification Code: Not classified

SECTION 10. STABILITY AND REACTIVITY

Reactivity	The product does not pose any further reactivity hazards addition to those listed in the following sub-paragraph.	in
Chemical stability	Stable.	

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Possibility of hazardous reactions	: Reacts with stro	ng oxidising agents.	
Conditions to avoid	: Extremes of ten	perature and direct sunlight.	
Incompatible materials	: Strong oxidising	agents.	
Hazardous decomposition products	: No decompositi	on if stored and applied as directed.	

SECTION 11. TOXICOLOGICAL INFORMATION

Basis for assessment	 Information given is based on data on the components and the toxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).
Exposure routes	: Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.
Acute toxicity	
Product:	
Acute oral toxicity	: LD50 rat: > 5,000 mg/kg Remarks: Low toxicity Based on available data, the classification criteria are not met.
Acute inhalation toxicity	: Remarks: Based on available data, the classification criteria are not met.
Acute dermal toxicity	 LD50 Rabbit: > 5,000 mg/kg Remarks: Low toxicity Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product:

Remarks: Slightly irritating to skin., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis., Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Product:

Remarks: Slightly irritating to the eye., Based on available data, the classification criteria are not met.

Components:

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Zinc dialkyldithiophosphate:

Remarks: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Product:

Remarks: Not a skin sensitiser. Based on available data, the classification criteria are not met.

Components:

Borated ester:

Remarks: May cause an allergic skin reaction in sensitive individuals.

Triphenyl phosphite:

Remarks: May cause an allergic skin reaction in sensitive individuals.

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Chronic toxicity

Germ cell mutagenicity

Product:

: Remarks: Non mutagenic, Based on available data, the classification criteria are not met.

Carcinogenicity

Product:

Remarks: Not a carcinogen., Based on available data, the classification criteria are not met.

Remarks: Product contains mineral oils of types shown to be non-carcinogenic in animal skinpainting studies., Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

Material	GHS/CLP Carcinogenicity Classification
Highly refined mineral oil	No carcinogenicity classification.

Reproductive toxicity

Product:

Remarks: Not a developmental toxicant., Does not impair fertility., Based on available data, the classification criteria are not met.

STOT - single exposure

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Product:

Remarks: Based on available data, the classification criteria are not met.

STOT - repeated exposure

Product:

Remarks: Based on available data, the classification criteria are not met.

Aspiration toxicity

Product:

Not an aspiration hazard.

Further information

Product:

Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal., ALL used oil should be handled with caution and skin contact avoided as far as possible.

Remarks: Slightly irritating to respiratory system.

SECTION 12. ECOLOGICAL INFORMATION

Basis for assessment	 Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).
Ecotoxicity	
Product:	
Toxicity to fish (Acute toxicity)	: Remarks: LL/EL/IL50 10-100 mg/l Harmful
Toxicity to crustacean (Acute toxicity)	: Remarks: LL/EL/IL50 10-100 mg/l Harmful
Toxicity to algae/aquatic plants (Acute toxicity)	: Remarks: LL/EL/IL50 10-100 mg/l Harmful

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Toxicity to fish (Chronic toxicity)	: Remarks: Data not available
Toxicity to crustacean (Chronic toxicity)	: Remarks: Data not available
Toxicity to microorganisms (Acute toxicity)	: Remarks: Data not available
<u>Components:</u> Triphenyl phosphite :	
M-Factor (Short-term (acute aquatic hazard)) : 1
M-Factor (Long-term (chronic) aquatic hazard) O,O,O-triphenyl phosphor	: 1 othioate :
M-Factor (Short-term (acute	
aquatic hazard) M-Factor (Long-term (chronic) aquatic hazard)	: 10
Persistence and degradability	
Product:	
Biodegradability	: Remarks: Not readily biodegradable., Major constituents are inherently biodegradable, but contains components that may persist in the environment.
Bioaccumulative potential	
Product:	
Bioaccumulation	: Remarks: Contains components with the potential to bioaccumulate.
Partition coefficient: n- octanol/water	: log Pow: > 6Remarks: (based on information on similar products)
Mobility in soil	
Product:	
Mobility	 Remarks: Liquid under most environmental conditions., Adsorbs to soil and has low mobility Remarks: Floats on water.
Other adverse effects	
No data available <u>Product:</u>	
Additional ecological information	 Does not have ozone depletion potential, photochemical ozone creation potential or global warming potential., Product is a mixture of non-volatile components, which will not be released to air in any significant quantities under normal conditions of use. Poorly soluble mixture., Causes physical fouling of aquatic organisms.

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	Mineral oil does not cause chronic toxicity to aquatic organisms at concentrations less than 1 mg/l.		
SECTION 13. DISPOSAL CON	SIDERATIONS		
Disposal methods			
Waste from residues	 Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses. 		
	ground water, o Waste, spills or Waste arising fr disposed of in a preferably to a r competence of established befo Do not dispose	should not be allowed to contaminate soil or r be disposed of into the environment. used product is dangerous waste. om a spillage or tank cleaning should be ccordance with prevailing regulations, recognised collector or contractor. The the collector or contractor should be orehand. of tank water bottoms by allowing them to ound. This will result in soil and groundwater	
	Pollution from S	International Convention for the Prevention of hips (MARPOL 73/78) which provides ts at controlling pollutions from ships.	
Contaminated packaging	to a recognized the collector or Disposal should	ordance with prevailing regulations, preferably collector or contractor. The competence of contractor should be established beforehand. I be in accordance with applicable regional, cal laws and regulations.	
Local legislation Remarks		l be in accordance with applicable regional, cal laws and regulations.	

SECTION 14. TRANSPORT INFORMATION

National Regulations

ADG Not regulated as a dangerous good

International Regulations

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IATA-DGR Not regulated as a	a dangerous good		
IMDG-Code Not regulated as a	a dangerous good		
Maritime transport in bulk according to IMO instruments			

MARPOL Annex 1 rules apply for bulk shipments by sea.

Special precautions for user

Remarks

: Special Precautions: Refer to Section 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Therapeutic Goods (Poisons : No poison schedule number allocated Standard) Instrument

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Product classified as per Work Health Safety Regulations – Implementation of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) 2012 and SDS prepared as per national model code of practice for preparation of safety data sheet for Hazardous chemicals 2020 based on Globally Harmonized Classification version 7.

National Model Code of Practice for the Labelling of Workplace Hazardous Chemicals (2011).

Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG code). Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Other international regulations

The components of this product are reported in the following inventories:

TSCA	:	All components listed.
AIIC	:	Listed introduction

SECTION 16. OTHER INFORMATION

Full text of H-Statements

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

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H373	May cause damage to or	gans through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life v	with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.		
Full text of other abbreviations			
Acute Tox.	Acute toxicity		
Aquatic Acute	Short-term (acute) aquat	tic hazard	
Aquatic Chronic	Long-term (chronic) aqu	atic hazard	
Asp. Tox.	Aspiration hazard		
Eye Dam.	Serious eye damage		
Eye Irrit.	Eye irritation		
Skin Irrit.	Skin irritation		
Skin Sens.	Skin sensitisation		
STOT RE	Specific target organ tox	icity - repeated exposure	

Abbreviations and Acronyms

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose): MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC -New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG -Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Date of preparation or review : 18.04.2025

Further information

Training advice

: Provide adequate information, instruction and training for

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	operators.	
Other information	: A vertical bar () in the from the previous vertices of the previous vertices of the previous of the previou	ne left margin indicates an amendment ersion.
Sources of key data used to compile the Safety Data Sheet	sources of informati Health Services, ma	e from, but not limited to, one or more on (e.g. toxicological data from Shell terial suppliers' data, CONCAWE, EU EC 1272 regulation, etc).

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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